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SOURCE Revistele Tehnice AGIR, Viata Agricola (Technical Review of the General
Association of Rumanian Engineers, Agricultural Life), No 5, 1948.

ROMANIAN TRACTOR IAR 22

Engr Cecil Popescu

The Rumanian tractor IAR 22 is powered by a four-cylinder, four-cycle Diesel motor which develops 42 horsepower at 1,200 rpm. The motor is started by gasoline and switches automatically to Diesel fuel at 900 rpm. Diesel fuel with 60 degree centigrade flash point and 0.887 specific gravity is specified for the motor. There are five forward speeds and one reverse; fourth and fifth speeds are locked out on tractors with all-iron wheels which are to be used in agriculture. The power at the drawbar is 12 percent greater when the tractor is equipped with rubber tires and not all-iron wheels. At the rear of the transmission case is a power takeoff with a wheel for a belt. This wheel, geared to the main axle by a pair of cogwheels, is used to run a belt for threshers, saws, pumps, etc.

Some of the tractor's characteristics are:

Force at power takeoff	34 hp (approximately)
Tractive power for plowing	1st speed: 1,900 kg
	2d speed: 1,400 kg
	3d speed: 1,000 kg
Speed of belt wheel	900 rpm
Diameter of belt wheel	360 rpm [sic; probably 360 mm]
Weight of tractor	3,250 kg
Power	38 - 40 hp
Crankshaft	3 bearings
Normal motor speed	1,100 - 1,200 rpm
Oil consumption	5 kg/10 work-hours
Fuel consumption	250 gr/hp-hr
Fuel consumption at plowing	5 kg/hr
Oil capacity of transmission case	55 liters

Each tractor is equipped with two headlights, one tail light and a kit of tools containing wrenches of all sizes, special value-grinding compound, and

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special vaseline for the water pump. With every 50 tractors there is a special kit of tools for general overhauling. The normal life of a tractor is 5,000 hours. Any defects which develop within the first 800 hours are repaired by the factory at its own expense.

Up to May 1948, the Brazov plant was delivering 55 assembled tractors per month and spare parts equivalent to an additional five tractors. Since May 1940 [sic; probably 1948], the plant has been delivering 100 tractors per month. Almost 900 tractors have been delivered since the Brazov plant began operation.

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